ABOUT THIS DEGREE PROGRAM

**TECH CORE**

This program is anchored with Tech Core, curriculum designed to help you build a foundation of interdisciplinary skills you’ll need for today’s Internet of Things (IoT) economy. You’ll learn relevant skills in operating systems, programming, hardware, connectivity and security – giving you a hands-on foundation in engineering technology, information technology and software and information systems.

**A PROGRAM TO FUEL YOUR FUTURE**

With this program, you’ll not only be armed with the Tech Core experience, but you’ll also be exposed to a variety of concepts that can help guide your specialization choice in Big Data and Analytics, Software Design and Programming, and Web and Mobile Application Development.

**IS THIS PROGRAM FOR YOU?**

Interested in a career in software development but not sure where to focus? With this program, you’ll become familiarized with methods for improving software design and application product development to help guide your degree specialization choice.

**CAREER OPPORTUNITIES**

Graduates of DeVry’s Software Development degree program may consider, but are not limited to, the following careers:
- Software Application Developer
- Software Systems Developer

WHAT YOU’LL LEARN

**ESSENTIALS**

- Communicate methods and findings
- Collaborate in dynamic work environments
- Solve complex problems
- Analyze numerical data
- Apply appropriate technologies

**TECH CORE**

- Produce, secure, operate and troubleshoot small enterprise networks
- Network, secure and deploy digital devices and sensors into the IoT ecosystem
- Solve technical problems using an algorithmic approach and basic programming and coding methods
- Install and configure operating systems using command line interface (CLI)

**PROGRAM**

- Design web distributed systems
- Develop applications
- Analyze and design software systems
- Product life cycle management

QUICK FACTS

- **120 CREDIT HOURS** minimum credit hours required for graduation
- **2 + 8 YEARS + MONTHS** minimum length to graduation

THE SMART WAY TO BE UNDECIDED

With our undecided model, you’ll be exposed to three different specializations and be better armed to choose your path.²

WORK WITH IOT TECHNOLOGIES & SYSTEMS

Immerse yourself in the Internet of Things (IoT) world and obtain hands-on experience with IoT, cloud, software and security technologies and systems.

BE AN ACTIVE PART OF AN INCLUSIVE FUTURE

Customize your curriculum by choosing Diversity, Equity and Inclusion (DE&I) course alternates for your Communication Skills, Humanities and Social Science courses. These options highlight relevant topics to help empower you to promote an inclusive workplace.

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¹ Not including breaks. Assumes year-round, full-time enrollment. Additional program information may be found at [https://www.devry.edu/online-programs.html](https://www.devry.edu/online-programs.html).

² Must declare a specialization by 60 credit hours for bachelor’s degree program.
Bachelor's Degree Program | Tech - Software and Information Systems

Software Development

**ESSENTIALS**

**COMMUNICATION SKILLS**
- ENGL112 Composition
- ENGL135 Advanced Composition
- ENGL216 Technical Writing

**HUMANITIES**
- LAS432 Technology, Society, and Culture

**SOCIAL SCIENCES**
- ECON312 Principles of Economics
- SOCS185 Culture and Society

**MATHEMATICS AND NATURAL SCIENCES**
- MATH114 Algebra for College Students
- MATH221 Statistics for Decision-Making
- MATH234 Discrete Math in Information Technology
- PHYS204 Applied Physics

**PERSONAL AND PROFESSIONAL DEVELOPMENT**
- CARD405 Career Development
- COLL148 Critical Thinking and Problem-Solving

**TECH CORE**

**TECH CORE**
- CEIS101 Introduction to Technology and Information Systems
- CEIS106 Introduction to Operating Systems
- CEIS110 Introduction to Programming
- CEIS114 Introduction to Digital Devices
- NETW191 Fundamentals of Information Technology and Networking
- NETW211 Fundamentals of Cloud Computing
- SEC285 Fundamentals of Information Security

**PROGRAM**

**INFORMATION SYSTEMS AND PROGRAMMING**
- CEIS150 Programming with Objects
- CEIS209 Intermediate Programming
- CEIS236 Database Systems and Programming Fundamentals
- CEIS295 Data Structures and Algorithms
- CIS355A Business Application Programming with Lab

**ANALYSIS AND DESIGN**
- BIAM110 Introduction to Business Analytics
- CEIS310 Process Improvement with Machine Learning
- CEIS312 Introduction to Artificial Intelligence

**CAREER PREPARATION**
- CEIS299 Careers and Technology
- CEIS499 Preparation for the Profession
- MGMT404 Project Management
- TECH460 Senior Project

**SPECIALIZED**

Students who have not chosen an area of specialization may begin the program in “Undecided” status; however, they must select a specialization by the time they have earned 60 semester credit hours toward their degree.

Available specializations are:
- Big Data and Analytics
- Software Design and Programming
- Web and Mobile Application Development

**EMBEDDED PROGRAMS**

Acquire an additional two credentials with our unique 3-in-1 design. Courses in our Programming Essentials certificate and Information Technology and Networking associate degree are inserted within our online Software Development degree program. So you can earn a certificate and an associate degree on the way to your bachelor’s degree.

**Demonstrate Skills at Every Step**

This icon indicates Diversity, Equity & Inclusion Courses